

PATENT COOPERATION TREATY
PCT

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JC17 Rec'd PCT/PTO 23 MAY 2005

FROM:

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Applicant LAST HARRY J

LETTER
(Section 205(b))

International Bureau of WIPO;

Pursuant Article 19, the Applicant files the following amendment to his application following receipt of the International Search Report as follows:

Claim 1- 3 are canceled

Claim 4 is canceled being replaced by new independent claim 6.

Claim 5 is amended to now depend upon new independent claim 6 and the subparagraphs thereof are renumbered.

New independent claim 6 replaces original claim 4.

New dependant claim 7 is added.

To accomplish the recited amendment:

Replacement pages 12- 16 are not required as cancelled claims 1 – 4 appear on original pages 12 – 16 of the application;

Replacement page 17 is provided presenting amended claim 5.

New pages 18 & 19 are provided presenting new independent claim 6.

New page 20 is provided presenting new claim 7

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New page 21 is added presenting Applicants Statement Under Article 19(1)

EXPLANATION FOR AMENDMENTS:

Original claims 1-3 are cancelled in light of US 2,657,533, *Schanzlin et al.*

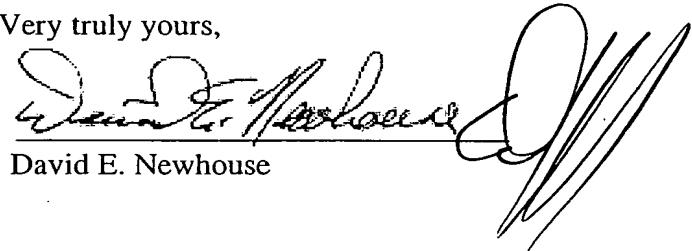
Original dependant claim 4 is replaced by new independent claim 6 that recites the combination of elements reflected by the combination of original claims 1 and 4 that the International Searching Authority deemed as meeting the criteria set out in PCT Article 33(2)-(3).

Original claim 5 is amended changing dependency from cancelled claim 4 to new independent claim 6. Also the subparagraphs of claim 5 are renumbered

New dependant claim 7 positively recites the structure translated previously recited in canceled original claim 4.

Dated: **23** December 2004

Very truly yours,



A handwritten signature in black ink, appearing to read "David E. Newhouse". To the right of the signature is a stylized, handwritten mark or logo consisting of several intersecting lines forming a 'W' shape.

David E. Newhouse

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5. The hydraulic circuit of claim 6 and further including.

- (i) a shuttle valve containing a single check valve ball within a common plenum having a valve seat at each of its respective ends where each end of the common plenum is coupled hydraulically between one of the plenums at each end of the translation passageway of the manifold of the dual, coupled check valve,
- (ii) a single pressure relief valve and a pressure (interrupt) switch each hydraulically coupled to a common plenum the shuttle valve for protecting against over pressurization and under pressurization in the respective volume input and volume output legs of the hydraulic circuit.

6. (new) A hydraulic circuit powered by a direct drive, reversible hydraulic power source having a hydraulic liquid reservoir, and two input/output ports for introducing pumped hydraulic liquid into a volume input leg and for pumping hydraulic liquid from a volume output leg of the hydraulic circuit, the volume input and output legs of the hydraulic circuit being determined by the direction of hydraulic liquid flow in the hydraulic circuit, comprising,

a) a combination of drive coupled, driven and driving, dual, reversible hydraulic motors having a common hydraulic input/output plenum hydraulically communicating with the reservoir, mechanically coupled for driving a winding/unwinding system translating a structure, the driven and driving, dual, reversible hydraulic motors being hydraulically coupled between the respective liquid volume input and output legs of the hydraulic circuit, the driving reversible hydraulic motor receiving input liquid from the volume input leg of the hydraulic circuit, outputting liquid to the common hydraulic input/output plenum, the driven reversible hydraulic motor receiving and pumping liquid from the common hydraulic input/output plenum, outputting liquid into the volume output leg of the hydraulic circuit, whereby initial excess discharge liquid volume output from the driving reversible hydraulic motor into the common hydraulic input/output plenum exceeding liquid volume input pumping demand of the driven reversible hydraulic motor flows to the reservoir, and as rotation of the driven, reversible hydraulic motor accelerates to a point where its liquid volume input pumping demand exceeds the discharge liquid volume output from the driving reversible hydraulic motor additional liquid make up volume is hydraulically drawn from the reservoir,

in combination with,

b) a dual, coupled check valve having:

a manifold hydraulically coupled between the liquid volume input leg and liquid volume output leg of the hydraulic circuit defining a translation passageway having a mid-passage drain hydraulically coupled to the reservoir, where each end of the translation passageway has an angled annular valve seat opening to a larger diameter plenum,

a check valve ball located within each large plenum at each end of the translation passageway, and

a translating rod having a length greater and a circumferential diameter less than that of the translation passageway located in the translation passageway for preventing the respective check valve balls from simultaneously seating on the valve seats at the respective ends of the translation passageway,

whereby, hydraulic liquid pumped from the direct drive, reversible hydraulic power source seats the check valve ball on the particular valve seat at the end of the translation passageway in the plenum on the volume input leg of the hydraulic circuit and translates the translating rod in the translation passageway preventing the check valve ball in the plenum on the volume output leg of the circuit from seating on the valve seat at the other end of the translation passageway, allowing hydraulic liquid input to the direct drive, reversible power source from both the volume output leg of the hydraulic circuit and the reservoir, and allowing excess liquid in the volume output leg of the circuit to flow to reservoir.

7. (New) The hydraulic circuit of claims 5 or 6 wherein the structure translated by the winding system is a swimming pool cover translated back and forth across a swimming pool.

PATENT COOPERATION TREATY**PCT****STATEMENT UNDER ARTICLE 19(1)**

Original claims 1-3 are cancelled in light of US 2,657,533, *Schanzlin et al.*

Original dependant claim 4 is replaced by new independent claim 6.

Original claim 5 is amended changing dependency from cancelled claim 4 to new independent claim 6.

New independent claim 6 recites a reversible hydraulic power source in combination with reversible hydraulic motors that drive a winding system to translate a structure, a combination deemed as meeting the criteria set out in PCT Article 33(2)-(3) by the International Searching Authority.

New dependant claim 7 positively recites the structure translated in new claim 6.